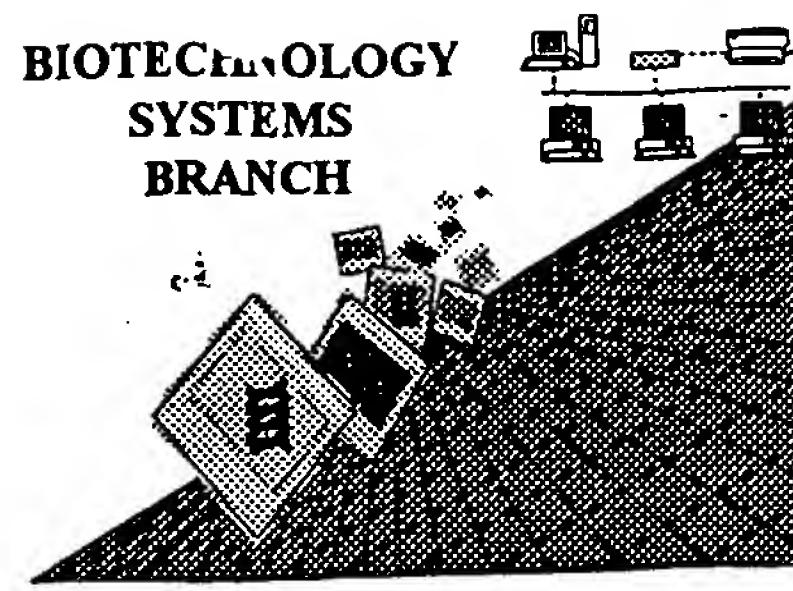


*Shanein
Folger*

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/509,712

Source: 1648 Rev A

Date Processed by STIC: 7/23/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/509,712

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

1648

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,712

DATE: 07/23/2001
TIME: 15:47:30

Input Set : A:\W103960.txt
Output Set: N:\CRF3\07232001\I509712.raw

2 <110> APPLICANT: Rubin, Donald H.
3 Organ, Edward L.
4 DuBois, Raymond N.
6 <120> TITLE OF INVENTION: Mammalian Genes Involved in Viral
7 Infection and Tumor Suppression
9 <130> FILE REFERENCE: 01123.0004/P
11 <140> CURRENT APPLICATION NUMBER: US/09/509,712
11 <141> CURRENT FILING DATE: 2000-02-11
11 <150> PRIOR APPLICATION NUMBER: 60/062,021
12 <151> PRIOR FILING DATE: 1997-10-10
14 <160> NUMBER OF SEQ ID NOS: 127
16 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

18 <210> SEQ ID NO: 1
19 <211> LENGTH: 925
20 <212> TYPE: DNA
21 <213> ORGANISM: Rattus norvegicus
W--> 22 <400> SEQUENCE: 1
E--> 23 ggggaaaaac cnngnaattg tttttgacg anccaaaaag gggcchagna gcnnttntcc 60
E--> 24 canatgggn cgggatcntn tccnaggana gattnatgga gtatncctt tttgcncnaa 120
E--> 25 ggttGattgc tcttgaaagg ntttgagggtg naattcctcc gtnagttga ccgttagtcgg 180
E--> 26 atntgaagag ggattgttna gcagnecataa tttcattccc tgnacaccca gtaacnnttt 240
E--> 27 accgtcatt ggttggaaat tgatntcggt aggtancaan ggccacagtt atttattgtt 300
E--> 28 ncggaggatt gcaccaatn ggccggctgc ctctganatc tggctcat ccatgccgt 360
E--> 29 tcacccagac gaaagccgaa agcntcggqa gtcctaactn tagtccntga aagtcatc 420
30 cagctgcgtt atgggctgt gcagagtcgg agctcgtaa atattgccc cgtgactgag 480
31 ctggagagaa tgctccttc ttggcctgg gcagctcttgcagctcaca tgcactgttt 540
32 acatattcctc ccacattccc ccctgaggaa tcattcggtcc tcggccct taagtccct 600
33 caacagaaaa caaggcagag tggAACGAAG gaaagtgcgt ggccgttaga aagcctgtct 660
34 cgaatctgtc ccacgtcct caggtgcgt tccaaacagc aaagattcta gtgaagaaaa 720
35 ataccgtcg gtcaatttgt caggtggaca gagcaggacc cgggtcttg gaagcctcgt 780
36 ccattcctct gggaaagggtg gggggggcg tggatgcag ctctcaagaa gaaggattt 840
37 ttgtttctt qgagaaactg ccatcccagg agctgagagt gatcagtag gaaggctgt 900
E--> 38 gacaggaagc agggaggttc agcng 925 item 9
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 554
42 <212> TYPE: DNA
43 <213> ORGANISM: Rattus norvegicus
W--> 44 <400> SEQUENCE: 2
E--> 45 caagatngan gggcgccgg ttgcnnccaga gagcgggtag ggaagggAAC gcccggatg 60
E--> 46 agccngggtg cgganagcca gaccccaggc gtggaaaggagagagata gagcggccgg 120
E--> 47 ttggaaagag gaggaccgtg gttnataaat aacagaaagc ccagaggac gtancatcc 180
E--> 48 gggatggaga gaggttaggaa atccagntgt aagtccaaa ctgccaccac cttcatnaga 240
E--> 49 actgcttcgt gtaaggtcac gcacccggcc agctgtccng agtggcggtc ctggcgttt 300

Does Not Comply
Corrected Diskette Needed

This error type
exists in all sequences
(global error)

See item 9 on Error summary sheet

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712

DATE: 07/23/2001

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

E--> 50 aagtttagcta aagttaactgc aactccgnct gtgcagactg ntctgtaaatt ctctctgtcc 360
 E--> 51 gccaaattct ccctccttatt aaactttca cttcctttca ctttagttcc tnacttcttt 420
 E--> 52 caaacggaaag ctgttaactga gcctgccacc cnganacntt gtgggtgcca ttttatgct 480
 E--> 53 aaagtaatcg tgtttttat gcctgtcaac tccctttca tntaaagcag ggcntaccct 540
 54 attataactc tgcc 554
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 891
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Rattus norvegicus

W--> 59 <400> SEQUENCE: 3

E--> 60 ttngaaaanaa tttccgttnaa ggtcngnaat nggccccgga aaaaatgngt tcctccccac 60
 E--> 61 cttcattggn gcggtatcctg ccngggaggc caatgggtta acaaataatc tttnggagnt 120
 E--> 62 ntggtnnnnnn ggggagggac ncccacagan tcacatgggtg gttnnnnnnnn ngggcatcgt 180
 E--> 63 tnngatatttc tcacattnnng ngaanctatg tnngggcttc ctttcngaca ggtgggtggtt 240
 E--> 64 nnacangnnn atgtgtgctt cttttttcag cagtggtgga cccggattct aagaccctta 300
 E--> 65 cngtaacaat gccctntttt cctaagccta accagtctt tangaggant gctcttgggn 360
 E--> 66 acccatgctg nntcacctag ccttggntca catntnnac acaggaaaag gcagcatgtc 420
 E--> 67 ttntnggagc tcagcttatt cccttcccnt cccatccagn atctccctgg gntggatgag 480
 E--> 68 gtggatgacg catcttcaaa gcaccccaag tntcatggga tgtgcacagg agcttcgttg 540
 E--> 69 gaaatgtgtt ggcgcaccag gcttgtgttag gaaacaacag actactcgaa attaaagtcn 600
 E--> 70 taccttgcag ggttctcaga ggctttacg cattaataaa catttgaatc ntaagaagg 660
 E--> 71 agcacagcat gtaatattnt tcaaattatc aggcnntgca accttcatta gtttctctta 720
 E--> 72 cgcaagctggg ngtgggtggtag tgcacatggc acgtggaggca cngatatctc 780
 E--> 73 catctctgtg acttccagac cggcncgccc agagcaagtt ccaggccacc cagatgagat 840
 E--> 74 gctcacagag gggacctttt tntgatgacc aacgnagnat gcaagtaagg a 891
 75 <210> SEQ ID NO: 4
 76 <211> LENGTH: 974
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Rattus norvegicus

W--> 79 <400> SEQUENCE: 4

E--> 80 aaaanaanat attccgnntc tnntagcnna gaagttntnc gagcnntccc ccgtnttttt 60
 E--> 81 aaaaacccnc ggattccggn nntcgggnnt taanngnttt ttaanggcc cnaagnccn 120
 E--> 82 nttattgccc ncntttcccc cccgctnttgc cncccttta ctngagant ngtgnncna 180
 E--> 83 agattttaag gttnttgccc ccccggtttt ntntccctn ntntccctn nagntttaaa 240
 E--> 84 accggtnnntt gttncnannt nntgnancc nccnattggg gtttccgnntt accngggttt 300
 E--> 85 ttccccatgn ccgttccctc caatnttgnna cttcccnngt cngggtccna atnccnngna 360
 E--> 86 acngntcnan ccttatttgc aattaatttt tccttgnna ntctgnccccc cnngnatttg 420
 E--> 87 gggttcttgg gngcaggggcc ttttttctt tgggnngcaan cncataaaatn ttaccagntt 480
 E--> 88 gattgctaag gaagtancna tgggttngaa ccccccctn ttntctccca gatggaaacc 540
 E--> 89 aggattttgg aactgcagag gtttcagggt cttgggaagc ggaggcagnn aaagatttgg 600
 E--> 90 gtgcactgtc cttttgcattt atggggtttgc cttgcctgtc ggctcncttc ctgctntntc 660
 E--> 91 agatgggtgac tgaggctact tngcaggac tnggataat catgtccagg tggctccct 720
 E--> 92 tccgagcaga aaggacaga cgtggggcga tgaagttgct atcgttntt tttttttctg 780
 93 cacagactgc aaagtgtgca gaggagggaa ggctgtgcaaa aaaaaaaaaaaaaaaa 840
 94 aaaaaaaaaaaa ccgaggacgc agaagttaga ctgctgaccc atttggtgca tgtgtgccc 900
 E--> 95 tggaggggagg ggaccttntt taaagggttc acggcggcagc cantgggnnaa nngnnccnt 960
 E--> 96 acgnnnctcc caga 974
 97 <210> SEQ ID NO: 5
 98 <211> LENGTH: 850

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712

DATE: 07/23/2001

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

99 <212> TYPE: DNA
 100 <213> ORGANISM: Rattus norvegicus
 W--> 101 <400> SEQUENCE: 5

E--> 102 antttccct caagnaaant ntggtttggg caacttgaag acgctnnac cnaaaaccct 60
 E--> 103 tgnggagntt ggngaccttn ttaccgnaan gagtggaaa cggttcctc cgggtnang 120
 E--> 104 gtaggggaa cccgnngaa aatttaaaa ccnnngggc ttttcgaat taaggggaaa 180
 E--> 105 ngcggttng gttnntgaag ggcgggngt tggagtcna gtccagagtt gatttccacc 240
 E--> 106 cacaaatntg ggaggtgncc gggatgntg ncntttctt gngatgaggg ntgccgtnc 300
Line 9
 E--> 107 ggantaacag ngnttgcntt gtntngcnaa acgaagagtn tcctgnttg aataggngtt 360
 E--> 108 cngttcgang ganccagatt tangngntgg agnaaggatt nggcagataa angcntgaga 420
 E--> 109 natgnancnt ggancaggc ngnncnagn ntacagatga tgnnccana canganataa 480
 E--> 110 ntncagatca cagtcgtacc cnggctggg ccatgaanag ggcattcccc gacnnacaca 540
 E--> 111 ngccttnana antgntcaga gaaccancag tggntanggg ntgcccnnn naccaggaa 600
 E--> 112 gaccggggc gtgnccgata ttgacacanc agatnnccatt tgggnccgt tcgagggttn 660
 E--> 113 atgntcnccg agtacnagan angatcntcc aaccggaaat nccgtctcc ngtcgccga 720
 E--> 114 tgnaatgagt cgnccggnaa cctcatatcc aagaaacnat acagcagtgg nntccgagtc 780
 E--> 115 tcgtatantc nttgcggng gaggctatnt tcagaggnc aagttaccgt tagcgggana 840
 E--> 116 aagtngaana 850

117 <210> SEQ ID NO: 6
 118 <211> LENGTH: 531
 119 <212> TYPE: DNA
 120 <213> ORGANISM: Rattus norvegicus
 W--> 121 <400> SEQUENCE: 6

E--> 122 ttgngcngg gtctcctctg ngtngngtn tccccnanag ggggggtctc acagtgnng 60
 E--> 123 ngtctnntgt ctgtgtngtg cccctgtccn catctctcac nccaggaga gagatgtgag 120
 E--> 124 ananacatca gagatctctn gnacagtgtt tcacaagagt ctatcncana gagcacatct 180
 E--> 125 gcccggggc anacacaact ctaaatgtgt ctcannntgat ctctctnttg tgtctctnac 240
Line 9
 E--> 126 atatnggac atgctctcag agtatnggnt ctcttngcn cttnngcaca cacacacaca 300
 E--> 127 cacacacaca cacacacaca cncnttctc tctggcacag ggntatggca nagcacatnt 360
 E--> 128 tnngagntca nagctntata tgagtgtgt gcgaaaggng tnatnanann gacnnccca 420
 E--> 129 gcnnatatacg ggggggnnc tctngggctc tcttnngnaa tntngggng agtctgcna 480
 E--> 130 cacaggcgct cncnacccanc nnnttgggc ccccccagggng ttttcnccc c 531

131 <210> SEQ ID NO: 7
 132 <211> LENGTH: 572
 133 <212> TYPE: DNA
 134 <213> ORGANISM: Rattus norvegicus
 W--> 135 <400> SEQUENCE: 7

E--> 136 ttttntgtg gccctttaaa ctctngtgn ccgtntnccc nagaggggg gtctcacaag 60
 E--> 137 gagacancgg nnacacagag gtttngnn tattngaggt ctctgcgcac nccananttt 120
 E--> 138 aaccncgggg nctcntgttt tattttaaaa aaaaagagtc ncatgtntat ttctctnatg 180
 E--> 139 tgaaaatcnc attcanagtt ntggggtttc ccntgaggag anatagagtt tcacacttt 240
Line 9
 E--> 140 ctctccgagg ggtcntcna tgtntctccc caatgtgnng ggnacacaca tngggcccn 300
 E--> 141 agggggtgng ctctctctgc ncagggncc ccccaanang tagaganaca ntgtgggttt 360
 E--> 142 tacaacaca attcncgaga natntgttc cncantggnn gtctnagntc ncatgttgc 420
 E--> 143 gngacangtt agnnccccc atnttcnccc cccttcaca ctgccccnag agagagaaan 480
 E--> 144 tctnggcccc ctctanannt nttttaaat cncnccnnac cacaggtntt cccagggtat 540
 E--> 145 gngacntcnc cncnccnccn aaagatntgc nc 572

146 <210> SEQ ID NO: 8
 147 <211> LENGTH: 906

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712

DATE: 07/23/2001

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

148 <212> TYPE: DNA
 149 <213> ORGANISM: Rattus norvegicus
 W--> 150 <400> SEQUENCE: 8

E--> 151 tggagactc tctcatatgg cgcnntcncc aaagggnngt ctctntccng agncgcanac 60
 E--> 152 gcgagaanac tctgttnnnt ngtctcccc cncnccnaca gngtganant caaaacctct 120
 E--> 153 agagcccccc agaaancccc tntctcaaann aaagagaaag agaagancga gnagnagaga 180
 E--> 154 gananagaga gagagagtgt gganctntt cctcngancc ccannnanan ngtgnngcnc 240
 E--> 155 actcncnngt gnngngnacc ccngggatt tncgcgtgtc cccttngct ctgtntanga 300
Jen 9
 E--> 156 gananatatg tntagtctct ctntcgcccc ctccgntgtc acgtgtgcgg ggcccnnngag 360
 E--> 157 acacagacac ntctctcang gggAACACAT anngactcnc acntgtgttt atattcnccc 420
 E--> 158 ctcccncnca cacanacaca cacacagnag atattnngct actctctcgtc tgtcacaggg 480
 E--> 159 gtacanattt antctnggcc anaccctct cngaagngng ggcannngtaa accccgcccc 540
 E--> 160 ctctcngaga angngagggc gnttacntt cccngtggcg tgnncngcc cccgagactc 600
 E--> 161 cccttngnac cccctntna accctctntt tgaacncaac ncaccntccc ntnttctcg 660
 E--> 162 gggnnngncc ngcncccnct ctcncaaaaa aaattnnaan ttngtcccct nccccttnt 720
 E--> 163 ttcnngnana aaccgtgtcc ggggggggan nactctttt tgnccttaaa atcaantttt 780
 E--> 164 ttcccctttt ccngggacc cccgnnttcc tttttaaaaaaaa aaaanaaccc tttctccctt 840
 E--> 165 ttaaaagnac ccnttttcc naaaaccgtt ccgnatttaa ttccctaaatt cccttccccn 900
 E--> 166 ncccgg 906

167 <210> SEQ ID NO: 9
 168 <211> LENGTH: 914
 169 <212> TYPE: DNA
 170 <213> ORGANISM: Rattus norvegicus
 W--> 171 <400> SEQUENCE: 9

E--> 172 gggatgngcc ctcagatcaa tacaccctc nggggngtc tctctctatc tccncagna 60
 E--> 173 gactcccatc tctntntntn cccccaganc tggngaacgg ngtgtggnga ncncntntctg 120
 E--> 174 ttctcnantc tctaaaagng cnaaaagcgc ananacacgn gcctctctat anatctcag 180
 E--> 175 tgtcccnngn nctctcngac ccctnntctg tntgagagac accctntctc aaaatatagt 240
 E--> 176 gtacacgngc tttgnggctc tcccctttc tctccactnt tgagngngaa acgcggngtt 300
 E--> 177 ntctctgaga tgtaganagn gtcccctnct cnatatatgt gtnccact ccnnaggng 360
Jen 9
 E--> 178 tctcataaaaa atcnccntnc tcaacaccac cncctcnacc cccncacga gaacacntcn 420
 E--> 179 ccaccncnan gacacaaaana naaggngtnn anaaccccan aaaaactnng ntntcngntt 480
 E--> 180 tacacacaca cacacncacn ctcncnaca ccccccacnna aatggagaa aaaacagaga 540
 E--> 181 ggnngtgggtg ttngnntcaa cacnntta cctctctgnt gnnanttgag aaaatattc 600
 E--> 182 tntncttacc cctctccct ctctgtgtgt ngannatatc ngntcttagat gtcctnaccc 660
 E--> 183 tccccaaacc tttctcnggn agagacntct ctntttttt ccccncttc catttggaaan 720
 E--> 184 anangagaag gnccaaaaag gngggngtct tctcggaaat ncncctttt ggccccccaa 780
 E--> 185 cctgggtttt tttccccctt ctttttaatn anttttcna nacaaanctt tnngngttt 840
 E--> 186 ggaaaaangcc tttnnctgnn nntttttcc cttcccttt tnnangggnt tccccccccc 900
 E--> 187 ccngaatttt tttt 914

200 <210> SEQ ID NO: 11
 201 <211> LENGTH: 880
 202 <212> TYPE: DNA
 203 <213> ORGANISM: Rattus norvegicus
 W--> 204 <400> SEQUENCE: 11

E--> 205 acccaatctt nanggtggca gtgnngnnga tcttaacggt ttttnagaaa aaaaantnct 60
 E--> 206 togctcnac ccccaagcct cccnntctta ncagttttt tatangaaaa aagatgataa 120
 E--> 207 cgaaattta aaaaccgtcg ttagagggaa tgaagggtca gccgaccatt acctganagt 180
Jen 9
 E--> 208 aatgaaggtn ttccggaggg ttgccttcca atcccagatg gatttgagtt tcaggatcaa 240

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712

DATE: 07/23/2001

TIME: 15:47:30

Input Set : A:\W103960.txt

Output Set: N:\CRF3\07232001\I509712.raw

E--> 209	ttcagttacc gntgaccatc caccnnccctc cngrtataatc attnatgag gatgaatgg	300
E--> 210	gagttagtga tgatgtatgat gatgtatgt aaggatgag aagnacacta tgataacaag	360
E--> 211	tgtctcagtc cacattaagg tttgcctgna aattatgtca taagccatgg gagacaaatt	420
E--> 212	ctttcnac acaattaata gtntctt cttcccatc ttctctgccc cattctgttt	480
213	tccaccacag gtctgcacg ggctacagct tccagtc tcc aagcaaatac cagaactgga	540
214	ggagaaaatt ccagtccagt gagtcatggg caggggagg ggtgggtaa gggcagtggc	600
E--> 215	gctcattcct nacatggtgt cttcttgc ctagcctggg atctgagggc aagagaacct	660
216	gtaagcttga tttgattcc actgctgact ggagtactg ccaaggatt tggacttct	720
217	ccatctctct ctctaaccctg aaatccttag gattcttta tttcacccga ccagagctgt	780
E--> 218	agcagagatg agctccaagt ttgaaatgag aaagggaaa ttgagagcta tgagcttaggn	840
E--> 219	gcgaaagncc ccacaaagnn tttggcaagt agaaaagnncg	880
220	<210> SEQ ID NO: 12	
221	<211> LENGTH: 909	
222	<212> TYPE: DNA	
223	<213> ORGANISM: Rattus norvegicus	
W--> 224	<400> SEQUENCE: 12	
E--> 225	cgnngagnng cagggannna ggnnggagcn ngagaggaga aggagaaggn nnggnagggng	60
E--> 226	nngngagnaa cgggcgggan cnnnngacga gagaanggn agggancga agngcggng	120
E--> 227	nagacgggtgc nnngggggga gggcaggag nggnagagag gcangagngg agngggaca	180
E--> 228	agcnnaaanc gaggaggnan gangngang nngngngnc gaaggcgcnn aagnnggtcg	240
E--> 229	gngagcggna gnggnnaaac tgggaaacga gacagacggc cccnnccgng gcangnggg	300
E--> 230	gagnnnccgnc agngagagna gncagnanca gancanggg ggggggggnc acnngcgg	360
E--> 231	gagggncgan gacggnnnngn annngnnaga ggcannnnnc gccnanagng ngaagngagg	420
E--> 232	cangagtgn cgnngagnag acaggcccgc gcncggggc cagacnnngg ncaccaccga	480
E--> 233	gggtggggng ggcncggaga naagaccaga ggnnngagg cgangcnng gtnngcccg	540
E--> 234	ggccncccna aaaaaannc gaaaaaaaaa aagggcgcnc gcngggcngg ggaggagcgc	600
E--> 235	ntnnctgatn tngantgacg gaggccnna atngggccgn gccanncnag ggcgnagagg	660
E--> 236	cccaagngcg gnaggnnaa gnanagancc ngnngtngg gagnganagn gcnnngnncc	720
E--> 237	nacccccnngn gttganggn cccacgnccg nccaggccgn nnaaagngag tccccnaaaa	780
E--> 238	nntcngngtn tnacancncc cgggggnccgc cgcnngtcc cgncacacng gannncggag	840
E--> 239	anngctnnt ntctncacan gngccanac nngntgctat gcaaaaagggg cgnacttcna	900
E--> 240	aaaaaagnnc	909
241	<210> SEQ ID NO: 13	
242	<211> LENGTH: 927	
243	<212> TYPE: DNA	
244	<213> ORGANISM: Rattus norvegicus	
W--> 245	<400> SEQUENCE: 13	
E--> 246	cctttattcg gaggcaggga nnncttgc tggaaangtta aacgtttttt aaaaggggg	60
E--> 247	ncccnggggg gggggntnt ccaggaaat aaaanggtgn gttgggggn aaaaatttat	120
E--> 248	tttnaaaaag ggcgnccnat ataaangacn ttcgggggg tttgaanagg gccgaaancn	180
E--> 249	tgcacgggtt tccgggggg ganaaggana agggacgca cggattttct tnccctttt	240
E--> 250	tngcaaattt cngcaggana ccaccgggtg gggngtttt gtttccgtt aagaaagcgg	300
E--> 251	gngtggaaaa acanggataa acgggaagan ggggttattt ngttagnaa ttgnttccag	360
E--> 252	ngngccagg aaattggcct gtccaaaattt ctttccnng cttttaagac aggcaggtat	420
E--> 253	tatttggcag caggttatta cnataggna gtaaataaca atggtaagt gcctggcaca	480
E--> 254	ggccagggtt agtagggcat gtatggaatg ttaaacattt cccttcattcc tgagaaanaa	540
E--> 255	aanacaagna anaaaggctg gtctcacata tcccaaagct ttatcttntt aggtgccccca	600
E--> 256	tggtaacgt taagccaagc ntatgantca caagggacga catggcagg ntaggtaca	660
E--> 257	gaatcagtgn tcagagactc caggggcacc cctgattccc tttgctgtca cacagacact	720

FYI →

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.